Practitioner's Docket No. 1012-122C4 (97-8CIP1CON4) ***PATENT***

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Matsiev et al.
Application No.: To be assigned Group No.: To be assigned
Filed: To be assigned Examiner: To be assigned
For: METHOD AND APPARATUS FOR CHARACTERIZING MATERIALS BY USING A MECHANICAL RESONATOR

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Applicants submit this statement in accordance with his duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. Indeed, certain of the items cited are not believed to constitute prior art, but are cited nonetheless, in an excess of caution, as well as objective evidence of patentatabilty of the claimed subject matter. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

A listing of the references is cited on forms PTO/SB/08A and PTO/SB/08B. Copies of certain of the references have not been provided due to their presence in

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Roni L. Masquelier
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the parent applications 10/266,047; 10/201,181; 09/800,819; 09/133,171; and 08/946,921. Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

The Commissioner is hereby authorized to charge any deficiencies to Applicants' attorney's Deposit Account No. 50-0496. If any additional fee is due with the filing of this paper please charge the amount to deposit account 50-0496. A duplicate copy of this paper is attached.

Date: 10/15/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known	
Application Number	N/A
Filing Date	N/A
First Named Inventor	Leonid Matsiev
Group Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	1012-122C4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		3,622,968		Silverman	11/1971	
		3,718,032		Gray	2/1973	
		3,778,757		Houston	12/1973	
		4,342,936		Marcus et al.	08/1982	
		4,349,881		November et al.	09/14/1982	
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		5,201,215		Granstaff et al	04/13/1993	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
			EP 0102490			03/14/1984		
			EP 0282251			09/14/1988		
			EP 0676638			10/11/1995		

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		5,357,964		Spivey et al.	10/1994	
		5,375,470		Matsushima et al.	12/1994	
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Application Number	N/A
Filing Date	N/A
First Named Inventor	Leonid Matsiev
Group Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	1012-122C4

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		4,760,351		Newell et al.	7/1988	
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Sheet 1 of 1

Complete if Known	
Application Number	N/A
Filing Date	N/A
First Named Inventor	Leonid Matsiev
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	1012-122C4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. [1]	Document Number Number - Kind Code [2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,338,416	08/16/1994	Mlcak et al.	
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		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

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Sheet 1 of 0

Complete if Known	
Application Number	N/A
Filing Date	N/A
First Named Inventor	Leonid Matsiev
Group Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	1012-122C4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		FISCH, M.R., et al., "Improved Acoustic Viscosimeter Technique", J. Acoust. Soc. Am., September 1976, pp. 623-625, v. 60, No. 3.	
		HIAVAY, J. and G.G. Guilbault, "Applications of the Piezoelectric Crystal Detector in Analytical Chemistry", Analytical Chemistry, November 1977, pp. 1890-1898, v. 49, No. 13.	
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		NOMURA, T. and M. Iijima, "Electrolytic Determination of Nanomolar Concentrations of Silver in Solution with a Piezoelectric Quartz Crystal", Analytica Chimica Acta, 1981, pp. 97-102, 131, Elsevier Scientific Publising Company.	
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		Trolier et al., "Preparation of Chemically Etched Piezoelectric Resonators for Density Meters and Viscometers", Mat. Res. Bull., Vol. 22, pp. 1267-1274 (1987)	
		News Release entitled "Field Trials of the Viscosity & Fluid Density Tool (VFD) and webpage excerpt (2 pages)	

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Sheet 1 of 0

Complete if Known	
Application Number	N/A
Filing Date	N/A
First Named Inventor	Matsiev et al.
Group Art Unit	2856
Examiner Name	N/A
Attorney Docket Number	1012-122C4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Copending Application Serial No. 10/201,181, filed 07/23/2002, entitled Method and Apparatus for Characterizing Materials by Using a Mechanical Resonator (1012-122C2)	
		NESBITT W. HAGOOD IV et al., "Development of Micro-Hydraulic Transducer Technology", 10th International Conference on Adaptive Structures and Technologies, Oct. 11-13, 1999, Paris, France.	

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